Application Number 09/963,806
Responsive to Final Office Action mailed June 30, 2005

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended): A method comprising:

receiving output from a router system module in a format describing a type of the output;

querying a server selected as a function of the type of the output; and

providing a response from the server to a user,

wherein querying a server selected as a function of the type of the output comprises invoking a command line interface (CLI) module to issue a query to the server.

Claim 2 (Original): The method of claim 1, wherein the output is a numeric address.

Claim 3 (Previously Presented): The method of claim 2, further comprising:

querying a name server selected as a function of the type of the output;

receiving from the name server a symbolic name associated with the numeric address; and

providing the symbolic name as the response to the user.

Claim 4 (Previously Presented): The method of claim 2, further comprising:

querying an owner database selected as a function of the type of the output;

receiving from the owner database an identification of an owner associated with the numeric address; and

providing the identification of the owner as the response to the user.

Claim 5 (Previously Presented): The method of claim 2, further comprising:

querying a router policy database selected as a function of the type of the output;

receiving from the router policy database an identification of one or more router policies associated with the numeric address; and

providing the identification of the one or more router policies as the response to the user.

Claim 6 (Original): The method of claim 1, wherein the output is received in an XML-tagged format.

Claim 7 (Previously Presented): The method of claim 1, further comprising rendering the output in a text format different from the format describing a type of the output before querying the server.

Claim 8 (Original): The method of claim 7, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 9 (Original): The method of claim 1, wherein the output comprises a listing of network peers identified by numeric addresses.

Claim 10 (Canceled):

Claim 11 (Currently Amended): A method for processing an address, the method comprising:

receiving a numeric address in an a self-describing format;

querying a name server to resolve the numeric address to a symbolic name; ~~and~~

providing the symbolic name to a user; and

rendering the numeric address in a text format different from the self-describing format before querying the name server.

Claim 12 (Original): The method of claim 11, wherein the numeric address is received in an XML-tagged format.

Claim 13 (Canceled).

Claim 14 (Currently Amended): The method of claim 11 ~~13~~, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 15 (Original): The method of claim 11, wherein the numeric address identifies a network peer.

Claim 16 (Currently Amended): A method for processing an address, the method comprising:

receiving a command in a user interface module;

invoking a system module to process the command;

receiving an XML-tagged IP address from the system module;

querying a domain name server to resolve the IP address to a symbolic name, wherein the IP address identifies a network peer; and

providing the symbolic name to a user.

Claim 17 (Previously Presented): The method of claim 16, further comprising rendering the IP address in a text format different from an XML-tagged format of the IP address before querying the domain name server.

Claim 18 (Original): The method of claim 17, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 19 (Canceled).

Claim 20 (Currently Amended): A processor-readable medium comprising instructions for causing a programmable processor to:

receive output from a router system module in a format describing a type of the output;

query a server selected as a function of the type of the output; and

provide a response from the server to a user,

wherein querying a server selected as a function of the type of the output comprises invoking a command line interface (CLI) module to issue a query to the server.

Claim 21 (Original): The processor-readable medium of claim 20, wherein the output is a numeric address.

Claim 22 (Previously Presented): The processor-readable medium of claim 21, further comprising instructions for causing the programmable processor to:

query a name server selected as a function of the type of the output;

receive from the name server a symbolic name associated with the numeric address; and

provide the symbolic name as the response to the user.

Claim 23 (Previously Presented): The processor-readable medium of claim 20, further comprising instructions for causing the programmable processor to:

query an owner database selected as a function of the type of the output;

receive from the owner database an identification of an owner associated with the numeric address; and

provide the identification of the owner as the response to the user.

Claim 24 (Previously Presented): The processor-readable medium of claim 20, further comprising instructions for causing the programmable processor to:

query a router policy database selected as a function of the type of the output;

receive from the router policy database an identification of one or more router policies associated with the numeric address; and

provide the identification of the one or more router policies as the response to the user.

Claim 25 (Original): The processor-readable medium of claim 20, wherein the output is received in an XML-tagged format.

Claim 26 (Previously Presented): The processor-readable medium of claim 20, further comprising instructions for causing the programmable processor to render the output in a text format different from the format describing a type of the output before querying the server.

Claim 27 (Original): The processor-readable medium of claim 26, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 28 (Original): The processor-readable medium of claim 20, wherein the output comprises a listing of network peers identified by numeric addresses.

Claim 29 (Currently Amended): A processor-readable medium comprising instructions for causing a programmable processor to:

receive a numeric address in a self-describing format;

query a name server to resolve the numeric address to a symbolic name; ~~and~~

render the numeric address in a text format different from the self-describing format before querying the name server; and

provide the symbolic name to a user.

Claim 30 (Original): The processor-readable medium of claim 29, wherein the numeric address is received in an XML-tagged format.

Claim 31 (Canceled).

Claim 32 (Currently Amended): The processor-readable medium of claim 29, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 33 (Original): The processor-readable medium of claim 29, wherein the numeric address identifies a network peer.

Claim 34 (Currently Amended): A processor-readable medium comprising instructions for causing a programmable processor to:

receive a command in a user interface module;

invoke a system module to process the command;

receive an XML-tagged IP address from the system module;

query a domain name server to resolve the IP address to a symbolic name, wherein the IP address identifies a network peer; and

provide the symbolic name to a user.

Claim 35 (Previously Presented): The processor-readable medium of claim 34, further comprising instructions for causing the programmable processor to render the IP address in a text format different from an XML-tagged format of the IP address before querying the domain name server.

Claim 36 (Original): The processor-readable medium of claim 35, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 37 (Canceled).

Claim 38 (Currently Amended): A routing device comprising:

a client interface to receive an operational request from a network router client; and

a router system module to process the operational request and to provide output to the client interface in a format that describes a type of the output, wherein the output is a numeric address,

wherein the client interface is configured to query a server selected as a function of the type of the output and to provide a response from the server to the network router client.

Claim 39 (Canceled).

Claim 40 (Currently Amended): The routing device of claim 38 ~~39~~, wherein the client interface is further configured to:

query a name server selected as a function of the type of the output;

receive from the name server a symbolic name associated with the numeric address; and

provide the symbolic name as the response to the network router client.

Claim 41 (Currently Amended): The routing device of claim 38 ~~39~~, wherein the client interface is further configured to:

query an owner database selected as a function of the type of the output;

receive from the owner database an identification of an owner associated with the numeric address; and

provide the identification of the owner as the response to the user.

Claim 42 (Currently Amended): The routing device of claim 38 ~~39~~, wherein the client interface is further configured to:

query a router policy database selected as a function of the type of the output;

receive from the router policy database an identification of one or more router policies associated with the numeric address; and

provide the identification of the one or more router policies as the response to the user.

Claim 43 (Currently Amended): A routing device comprising:

a client interface to receive an operational request from a network router client; and

a router system module to process the operational request and to provide output to the client interface in a format that describes a type of the output,

wherein the client interface is configured to query a server selected as a function of the type of the output and to provide a response from the server to the network router client,

~~The routing device of claim 38,~~ wherein the output is provided to the client interface in an XML-tagged format.

Claim 44 (Currently Amended): A routing device comprising:

a client interface to receive an operational request from a network router client; and

a router system module to process the operational request and to provide output to the client interface in a format that describes a type of the output,

wherein the client interface is configured to query a server selected as a function of the type of the output and to provide a response from the server to the network router client, ~~The routing device of claim 38,~~ wherein the client interface is further configured to render the output in a text format different from the format that describes a type of the output before querying the server.

Claim 45 (Original): The routing device of claim 44, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 46 (Currently Amended): A routing device comprising:

a client interface to receive an operational request from a network router client; and

a router system module to process the operational request and to provide output to the client interface in a format that describes a type of the output,

wherein the client interface is configured to query a server selected as a function of the type of the output and to provide a response from the server to the network router client, ~~The routing device of claim 38,~~ wherein the output comprises a listing of network peers identified by numeric addresses.

Claim 47 (Currently Amended): A routing device comprising:

a client interface to receive an operational request from a network router client; and

a router system module to process the operational request and to provide output to the client interface in a format that describes a type of the output,

wherein the client interface is configured to query a server selected as a function of the type of the output and to provide a response from the server to the network router client, ~~The routing device of claim 38,~~ wherein the system module is a BGP protocol module, an OSPF module, or a firewall filter module.

Claim 48 (Canceled).

Claim 49 (Canceled).

Claim 50 (Currently Amended): A routing device comprising:

a client interface to receive an operational request from a network router client; and

a router system module to process the operational request and to provide output to the client interface in a format that describes a type of the output,

wherein the client interface is configured to query a server selected as a function of the type of the output and to provide a response from the server to the network router client,

~~The routing device of claim 38,~~ the routing device further comprising a management server module communicatively coupled to the client interface.

Claim 51 (Currently Amended): A routing device comprising:

a client interface to receive an operational request from a network router client; and

a router system module to process the operational request and to provide output to the client interface in a format that describes a type of the output,

wherein the client interface is configured to query a server selected as a function of the type of the output and to provide a response from the server to the network router client,

~~The routing device of claim 38,~~ the routing device further comprising at least one of a chassis module, a device configuration module, and a routing protocol module.

Claim 52 (Original): A routing device comprising:

a client interface to receive an operational request from a network router client; and

a system module to process the operational request and to provide a numeric address to the client interface in a self-describing format,

wherein the client interface is configured to query a name server to resolve the numeric address to a symbolic name and to provide the symbolic name to the network router client.

Claim 53 (Original): The routing device of claim 52, wherein the system module is a BGP protocol module.

Claim 54 (Original): The routing device of claim 52, wherein the system module is an OSPF protocol module.

Claim 55 (Original): The routing device of claim 52, wherein the system module is a firewall filter module.

Claim 56 (Original): The routing device of claim 52, further comprising a management server module communicatively coupled to the client interface.

Claim 57 (Original): The routing device of claim 52, further comprising at least one of a chassis module, a device configuration module, and a routing protocol module.

Claim 58 (Original): A routing device comprising:

a client interface to receive an operational request from a network router client; and

a system module to process the operational request and to provide an XML-tagged IP address to the client interface,

wherein the client interface is configured to query a domain name server to resolve the IP address to a symbolic name and to provide the symbolic name to the network router client.

Claim 59 (Original): The routing device of claim 58, wherein the system module is a BGP protocol module.

Claim 60 (Original): The routing device of claim 58, wherein the system module is an OSPF protocol module.

Claim 61 (Original): The routing device of claim 58, wherein the system module is a firewall filter module.

Claim 62 (Original): The routing device of claim 58, further comprising a management server module communicatively coupled to the client interface.

Claim 63 (Original): The routing device of claim 58, further comprising at least one of a chassis module, a device configuration module, and a routing protocol module.

Claim 64 (Previously Presented): A system comprising:

a client interface to receive an operational request from a network router client;

a router system module to process the operational request and to provide output to the client interface in a format that describes a type of the output; and

a server to provide a response to the client interface,

wherein the client interface is configured to query the server and to provide the response to the network router client.

Claim 65 (Original): A system comprising:

a client interface to receive an operational request from a network router client;

a system module to process the operational request and to provide a numeric address to the client interface in a self-describing format; and

a name server to resolve the numeric address to a symbolic name and to provide the symbolic name to the client interface,

wherein the client interface is configured to provide the response to the network router client.

Claim 66 (Original): A system comprising:

a client interface to receive an operational request from a network router client;

a system module to process the operational request and to provide an XML-tagged IP address to the client interface; and

a domain name server to resolve the IP address to a symbolic name and to provide the symbolic name to the client interface,

wherein the client interface is configured to provide the response to the network router client.